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Installation manual

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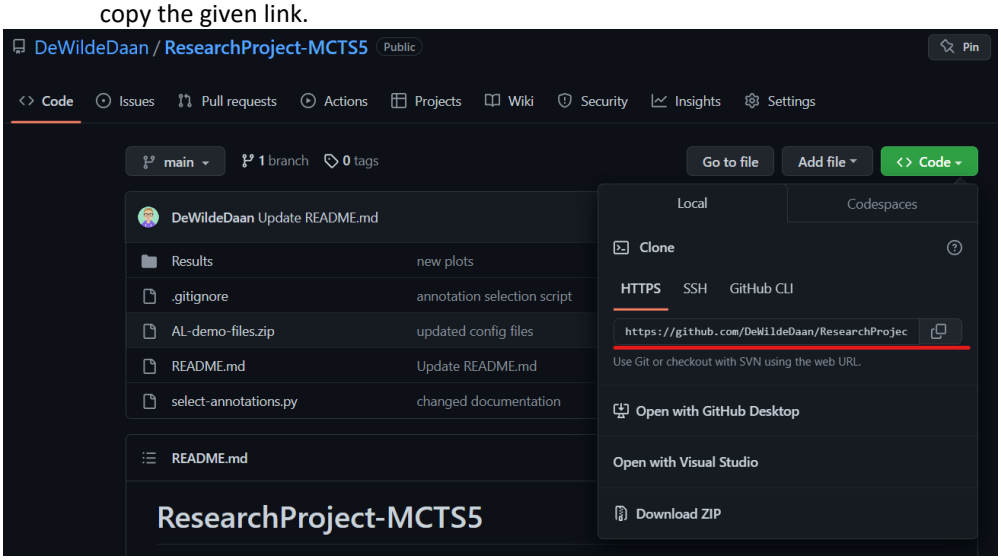
Cloning the GitHub repo

1. Start by copying the link to my GitHub repository by pressing the green '<> Code' button. Then copy the given link.

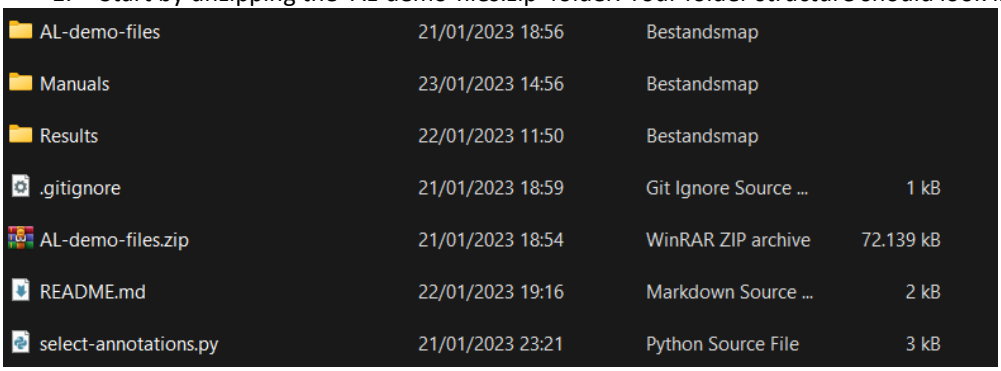


2. Clone the repository in your projects folder.

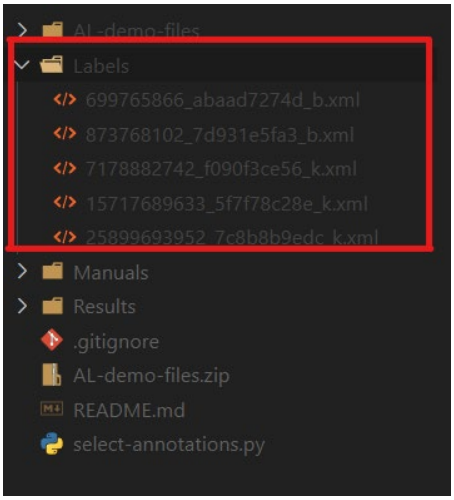
```
(c) Microsoft Corporation. Alle rechten voorbehouden.

C:\projects>git clone https://github.com/DeWildeDaan/ResearchProject-MCTS5.git
```

Local setup

1. Start by unzipping the 'AL-demo-files.zip' folder. Your folder structure should look like this:



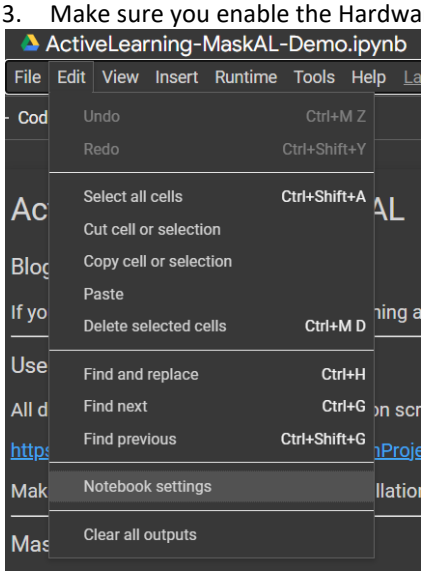
2. At this point you can open the 'select-annotations.py' script in Visual Studio Code, try and run the script. It should create a new folder named 'Labels' with some .xml files in them.

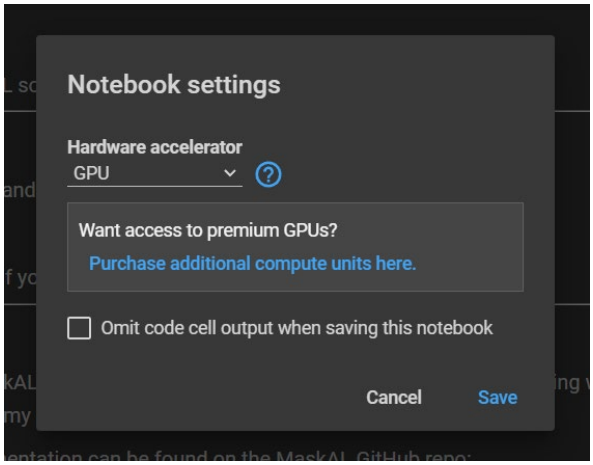


3. Once this works your local setup is complete.

Google Colab setup

1. Start by navigating to the Google Colab demo.
2. Next you can save a copy of the Google Colab notebook.
3. Make sure you enable the Hardware accelerator in: Edit -> Notebook settings





Installing dependencies

1. Once you are connected to a Google Colab runtime with GPU you can install the dependencies and packages in that runtime.
2. Run the first cell. This will install MaskAL and all needed dependencies to get this demo running. It will take 5-10 minutes to install everything.

```
#First we clone the MaskAL repo and install all needed dependencies.
!git clone https://github.com/pieterblok/maskal.git
!cd maskal && pip install -e .
!pip install cerberus
!pip install baal
!pip install xmltodict
!pip install matplotlib==3.1.3
```

3. Now, run the second cell. This will get the config files and the data from my GitHub, unzip it and put it all in the right folders.

```
#Here we get all needed files I provided in my GitHub repo and put them in the correct folders.
!wget https://github.com/DeWildeDaan/ResearchProject-MCTS5/raw/main/AL-demo-files.zip
!unzip AL-demo-files.zip > /dev/null
!rm AL-demo-files.zip
!mv AL-demo-files maskal/AL-demo-files
!mv maskal/AL-demo-files/config/config_AL.yml maskal/config_AL.yml
!mv maskal/AL-demo-files/config/config_random.yml maskal/config_random.yml
!rmdir maskal/AL-demo-files/config
```

4. Finally run the third cell. This will import the needed packages for making the plots.

```
#Some basic imports
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
```

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